Lumination™ LED Luminaires

Linear Recessed Lighting Troffers
BL Series

Project name _____
Date _____
Type _____

Product Description:

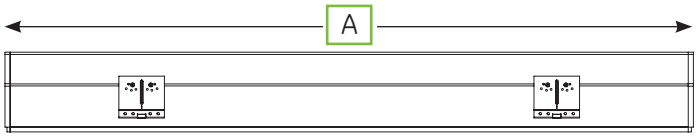
GE Lumination™ BL Series LED Luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency and are designed to flawlessly integrate into ceiling grid systems, like Logix™ integrated ceiling systems from USG. Innovative design allows for a low glare, uniformly lit appearance combined with ease of installation and maintenance. It is suitable for indoor general lighting.

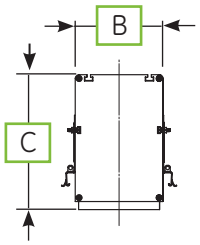
Performance Summary:

Distribution Patterns: Medium, Narrow
Delivered Lumen Output: 450-750 lm/ft options; See Optical Code chart.
System Input Power: 6 & 9 Watts/ft options; See Optical Code chart.
Efficacy: up to 87 LPW
Input Voltage: 120-277V
Standard Dimming Control: 0-10V, DALI
CCT: 3000K, 3500K, 4000K
Typical CRI: 84, Min CRI: 80
Color Consistency: 4 Step MacAdam Ellipse
Lifetime Rating: 50,000 Hours
Input Frequency (Hz): 50/60Hz
Power Factor: >0.9
Dimensions: (UL Stand Alone Version): 23.62 x 3.58 x 5.51 in.; 47.6 x 3.58 x 5.51 in.; 59.61 x 3.58 x 5.51 in.
(UL Continuous Version w/end caps): 23.23 x 3.58 x 5.51 in.; 46.85 x 3.58 x 5.51 in.; 58.66 x 3.58 x 5.51 in. Note: depending on length, grid filler plates may be required.
(CE Version): 23.23 x 3.58 x 5.51 in.; 46.85 x 3.58 x 5.51 in.;58.66 x 3.58 x 5.51 in.
THD: <20%
Mounting: T-Grid, Compatible with Logix™ Ceiling Systems from USG
Maximum Weight: 4': 15.3lb (6.9kg), 5': 6.8lb (7.6kg)
IC rating: Type IC
Operating Conditions: -10°C to 25°C
Limited Warranty: 5 Years
Files Available: IES, DWG, BIM, LM79

Certified by: CE c UL us LISTED

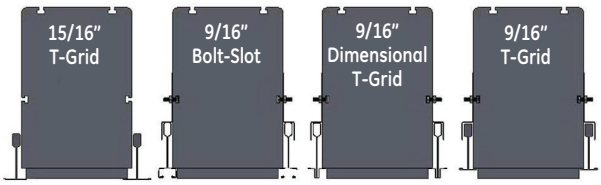
Product Dimensions:





UL Version (stand alone):	2FT (A = 23.62 in B = 3.58 in C = 5.51 in)
	4FT (A = 47.59 in B = 3.58 in C = 5.51 in)
	5FT (A = 59.60 in B = 3.58 in C = 5.51 in)
UL Version (continuous):	2FT (A = 23.23 in B = 3.58 in C = 5.51 in)
	4FT (A = 46.85 in B = 3.58 in C = 5.51 in)
	5FT (A = 58.66 in B = 3.58 in C = 5.51 in)
CE Version:	2FT (A = 23.23 in B = 3.58 in C = 5.51 in)
	4FT (A = 46.85 in B = 3.58 in C = 5.51 in)
	5FT (A = 58.66 in B = 3.58 in C = 5.51 in)

Mounting Methods:



a product of
ecomagination℠

Ordering Information:

BL __ - __ - **0** _ - __ - _ - _ - **WHTE** - _____ - _

INTERNAL CODE	FIXTURE TYPE (NOMINAL)	VOLTAGE	OPTICAL CODE	MOUNTING LOGIX COMPATIBLE	CONTROLLER	FINISH	OPTIONS
B = Backlit **L** = Linear	**42** = 4" x 2' **44** = 4" x 4' **45** = 4" x 5'	**0** = 120-277V (UL Version)		**A** = T-Grid **X** =Continuous Run	**V** = 0-10V **D** = DALI	**WHTE** = White	Blank if no options ***E** = Lutron Ecosystem Module (integrated into luminaire) ***H** = Chicago Plenum, CCEA ***EH** = Lutron Ecosystem Module & Chicago Plenum, CCEA Contact your local GE representative for special orders and product modifications.

OPTICAL CODE	DISTRIBUTION TYPE	CRI	COLOR TEMP (K)	TYPICAL LUMENS			SYSTEM WATTAGE		
				2 FT	4FT	5FT	2 FT	4FT	5FT
A1	Medium (High Output)	80	3000	1500	3000	3750	20	37	45
A2	Medium (High Output)	80	3500	1600	3000	3750	20	37	45
A3	Medium (High Output)	80	4000	1650	3000	3750	20	37	45
A4	Medium (Medium Output)	80	3000	1050	2000	2600	14	25	30
A5	Medium (Medium Output)	80	3500	1100	2000	2600	14	25	30
A6	Medium (Medium Output)	80	4000	1100	2000	2600	14	25	30
B1	Narrow (Low Output)	80	3000	900	1700	2200	14	25	30
B2	Narrow (Low Output)	80	3500	900	1700	2200	14	25	30
B3	Narrow (Low Output)	80	4000	900	1700	2200	14	25	30

imagination at work

Photometric Data: Lumination BL Series LED Luminaire

BL-44-X-A3-A-X-WHTE-X.IES – Medium

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	118.95
10-20	332.14
20-30	479.26
30-40	543.26
40-50	525.86
50-60	445.48
60-70	321.92
70-80	179.03
80-90	49.67
90-100	0.49
100-110	0.39
110-120	0.42
120-130	0.48
130-140	0.56
140-150	0.70
150-160	0.73
160-170	0.55
170-180	0.21

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

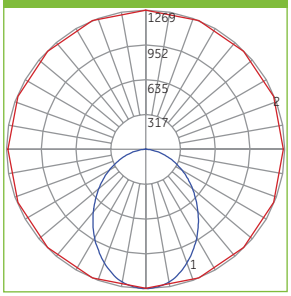
NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	451.09	N.A.	15.00
0-30	930.35	N.A.	31.00
0-40	1473.61	N.A.	49.10
0-60	2444.94	N.A.	81.50
0-80	2945.89	N.A.	98.20
0-90	2995.57	N.A.	99.80

Total Luminaire Efficiency = N.A.%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45	11805	11012	10299
55	10711	9904	9195
65	9531	8769	8116
75	8147	7408	6819
85	6272	5628	5128

POLAR GRAPH



BL-44-X-A3-A-X-WHTE-X.IES — Narrow

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	97.66
10-20	270.52
20-30	373.90
30-40	376.59
40-50	292.86
50-60	187.31
60-70	112.57
70-80	64.41
80-90	21.32
90-100	0.26
100-110	0.18
110-120	0.20
120-130	0.24
130-140	0.39
140-150	0.50
150-160	0.55
160-170	0.45
170-180	0.17

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	67
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48
7	72	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

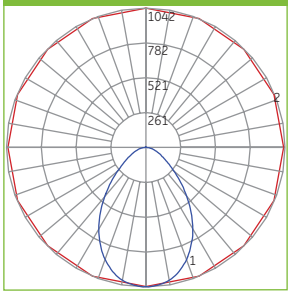
NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	368.18	N.A.	20.50
0-30	742.08	N.A.	41.20
0-40	1118.67	N.A.	62.10
0-60	1598.83	N.A.	88.80
0-80	1775.81	N.A.	98.70
0-90	1797.14	N.A.	99.80

Total Luminaire Efficiency = N.A.%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45	6393	6107	5902
55	4230	4102	4048
65	3086	3013	3021
75	2758	2657	2679
85	2617	2511	2498

POLAR GRAPH



Product Specifications:

Construction:

- Fully recyclable aluminum

Electrical System:

- Class 1, replaceable, high efficiency LED driver rated for 100,000 hours when used within operating conditions.
- Audible Noise – Per 29CFR 1910 sub part G: <24 dba (1 foot)
- Thermal overload protection shuts down the luminaire when system temperatures exceed designed operating conditions
- THD: <20%
- Transient Protection: 2.5 kV level 1.2/50microsec repetitive
- Environmental Testing: High Temperature High Humidity: 60°C / 90% (non-condensing)
- Electronic Vibration Testing: Multi Axis, Random Vibration Profile: 2-2000 Hz, 5Gs on electronics

Installation:

- Mounting accessories provided standard
- Integrated PSU enclosure delivers a clean, uninterrupted luminaire below the ceiling grid
- Luminaire Vibration Testing: Luminaire test to 0.5 G, 100,000 cycles per axis, 2 axis
- Can be mounted in continuous runs to provide seamless end-to-end illumination
- Mounting clips are included with fixture, but are field installed based on ceiling grid type used

For more information and access to all of our resources, including our design tool visit: **www.gelighting.com**

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